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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2022-06-23-45** **Date: 07-06-2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 06-06-2022

Type of Mix : Tack coat

Date of test : 06-06-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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B.KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

Engineer

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2022-06-23-45** **Date: 07-06-2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 06-06-2022

Type of Mix : Tack coat

Date of test : 06-06-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.74	0.744
4	Final weight of plate after application of tack Coat (c)	Kg	0.763	0.767
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2022-06-23-45** **Date: 10-06-2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 09-06-2022

Type of Mix : Tack coat

Date of test : 09-06-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.76
4	Final weight of plate after application of tack Coat (c)	Kg	0.80	0.78
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2022-06-23-45** **Date: 10-06-2022**

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 09-06-2022

Type of Mix : Tack coat

Date of test : 09-06-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.76
4	Final weight of plate after application of tack Coat (c)	Kg	0.80	0.78
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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B.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Assistant Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2022-06-23-45** **Date: 14-06-2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Sarapalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go SI No 109,110,111 Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go SI No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 13-06-2022

Type of Mix : Tack coat

Date of test : 13-06-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.76
4	Final weight of plate after application of tack Coat (c)	Kg	0.80	0.78
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.267
7	Average	Kg/sq.m	0.267	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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V.KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
End of Report

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2022-06-23-45** **Date: 14-06-2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 13-06-2022

Type of Mix : Tack coat

Date of test : 13-06-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.76
4	Final weight of plate after application of tack Coat (c)	Kg	0.80	0.78
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.267
7	Average	Kg/sq.m	0.261	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2022-06-23-45** **Date: 16-06-2022**

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 15-06-2022

Type of Mix : Tack coat

Date of test : 15-06-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.76
4	Final weight of plate after application of tack Coat (c)	Kg	0.81	0.78
5	Weight of tack Coat (d=c-b)	Kg	0.025	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.278	0.256
7	Average	Kg/sq.m	0.267	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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B KARTHIK RECHAN
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Assistant Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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DETERMINATION OF RATE OF SPREAD TACK COAT

Date: 16-06-2022

Lab ID : CP-RW-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 15-06-2022

Type of Mix : Tack coat

Date of test : 15-06-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.76
4	Final weight of plate after application of tack Coat (c)	Kg	0.80	0.79
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.025
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.278
7	Average	Kg/sq.m	0.267	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 09-06-22

Lab ID	:	**CP-RW-2022-06-23-45**
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	06-06-22
Type of Mix	:	BC (Bituminous Macadam)-Varma Layout - ACP House Road
Date of test	:	06-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.00	5.60
4	Average percentage	%	5.8	

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore South

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Lab ID : CP-RW-2022-06-23-45 Date: 09-06-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	42	42.48	9.0	91.0	90-100
9.5	42	84.96	18.1	81.9	70-88
4.75	94	179.36	38.2	61.8	53-71
2.36	61	240.72	51.2	48.8	42-58
1.18	42	283.2	60.3	39.7	34-48
0.6	19	302.08	64.3	35.7	26-38
0.3	52	354	75.3	24.7	18-28
0.15	38	391.76	83.4	16.6	12-20
0.075	57	448.4	95.4	4.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	28	28.26	6.0	94.0	90-100
9.5	57	84.78	18.0	82.0	70-88
4.75	127	211.95	44.9	55.1	53-71
2.36	24	235.5	49.9	50.1	42-58
1.18	42	277.89	58.9	41.1	34-48
0.6	61	339.12	71.8	28.2	26-38
0.3	19	357.96	75.8	24.2	18-28
0.15	24	381.51	80.8	19.2	12-20
0.075	57	438.03	92.8	7.2	4-10

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

Assistant Executive Engineer
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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 09-06-22

Lab ID	:	**CP-RW-2022-06-23-45**
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	06-06-22
Type of Mix	:	BC (Bituminous Macadam)-Varma Layout - ACP House Road
Date of test	:	06-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	473	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.4	5.6
4	Average percentage	%	5.5	

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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Lab ID : CP-RW-2022-06-23-45 Date: 09-06-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	47	47	9.9	90.1	90-100
9.5	56	103.4	21.9	78.1	70-88
4.75	66	169.2	35.8	64.2	53-71
2.36	61	230.3	48.7	51.3	42-58
1.18	33	263.2	55.6	44.4	34-48
0.6	28	291.4	61.6	38.4	26-38
0.3	47	338.4	71.5	28.5	18-28
0.15	42	380.7	80.5	19.5	12-20
0.075	52	432.4	91.4	8.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	24	23.55	5.0	95.0	90-100
9.5	57	80.07	17.0	83.0	70-88
4.75	113	193.11	40.9	59.1	53-71
2.36	33	226.08	47.9	52.1	42-58
1.18	42	268.47	56.9	43.1	34-48
0.6	71	339.12	71.8	28.2	26-38
0.3	33	372.09	78.8	21.2	18-28
0.15	5	376.8	79.8	20.2	12-20
0.075	61	438.03	92.8	7.2	4-10

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

Assistant Executive Engineer Sub Division Byatarayanapura B.B.M.P Bangalore South

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 12-06-22

Lab ID	:	CP-RW-2022-06-23-45
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	09-06-22
Type of Mix	:	BC (Bituminous Macadam)-Varma Layout - 1st Cross Road
Date of test	:	09-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.8	6.0
4	Average percentage	%	5.9	

CIVIL Pro Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Byatarayanapura Sub Division
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Lab ID : **CP-RW-2022-06-23-45** **Date: 12-06-22**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	42	42.48	9.0	91.0	90-100
9.5	90	132.16	28.1	71.9	70-88
4.75	90	221.84	47.1	52.9	53-71
2.36	42	264.32	56.1	43.9	42-58
1.18	14	278.48	59.1	40.9	34-48
0.6	14	292.64	62.1	37.9	26-38
0.3	57	349.28	74.2	25.8	18-28
0.15	61	410.64	87.2	12.8	12-20
0.075	38	448.4	95.2	4.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	42	42.39	9.0	91.0	90-100
9.5	75	117.75	25.1	74.9	70-88
4.75	80	197.82	42.1	57.9	53-71
2.36	33	230.79	49.1	50.9	42-58
1.18	24	254.34	54.1	45.9	34-48
0.6	42	296.73	63.1	36.9	26-38
0.3	42	339.12	72.2	27.8	18-28
0.15	72	411.48	87.5	12.5	12-20
0.075	24	435.03	92.6	7.4	4-10

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

B.B.M.P Bangalore-560024

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 12-06-22

Lab ID : CP-RW-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109.110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 09-06-22

Type of Mix : BC (Bituminous Macadam)-Varma Layout - 1st Cross Road

Date of test : 09-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	6.00
4	Average percentage	%	5.8	

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

Scanned by CamScanner

Lab ID : CP-RW-2022-06-23-45

Date: 12-06-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	90-100
9.5	68	68	14.4	85.6	70-88
4.75	107	175	37.1	62.9	53-71
2.36	54	229	48.5	51.5	42-58
1.18	38	267	56.6	43.4	34-48
0.6	41	308	65.3	34.7	26-38
0.3	65	373	79.0	21.0	18-28
0.15	39	412	87.3	12.7	12-20
0.075	43	455	96.4	3.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	96	98	20.9	79.1	70-88
4.75	89	187	39.8	60.2	53-71
2.36	75	262	55.7	44.3	42-58
1.18	31	293	62.3	37.7	34-48
0.6	11	304	64.7	35.3	26-38
0.3	72	376	80.0	20.0	18-28
0.15	32	408	86.8	13.2	12-20
0.075	32	440	93.6	6.4	4-10

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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Quality Manager

End of Report

Assistant Executive Engineer
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 16-06-22

Lab ID	:	CP-RW-2022-06-23-45
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	13-06-22
Type of Mix	:	BC (Bituminous Macadam)-Varma Layout - 2nd Cross Road
Date of test	:	13-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.40
4	Average percentage	%	5.5	

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Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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Lab ID : CP-RW-2022-06-23-45 Date: 16-06-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	0	0	0.0	100.0	90-100
9.5	70	70	14.8	85.2	70-88
4.75	109	179	37.9	62.1	53-71
2.36	59	238	50.4	49.6	42-58
1.18	41	279	59.1	40.9	34-48
0.6	47	326	69.1	30.9	26-38
0.3	60	386	81.8	18.2	18-28
0.15	32	418	88.6	11.4	12-20
0.075	34	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	102	107	22.6	77.4	70-88
4.75	84	191	40.4	59.6	53-71
2.36	89	280	59.2	40.8	42-58
1.18	27	307	64.9	35.1	34-48
0.6	18	325	68.7	31.3	26-38
0.3	52	377	79.7	20.3	18-28
0.15	26	403	85.2	14.8	12-20
0.075	42	445	94.1	5.9	4-10

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R.RARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

Assistant Executive Engineer
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2011)

Date: 16-06-22

Lab ID	:	CP-RW-2022-06-23-45
Project Name	:	Package-3. Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109.110.111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company. Prop. Sri C R Girish. No:12. Patel Pillegowda Layout. Ramachandrapura. Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	13-06-22
Type of Mix	:	BC (Bituminous Macadam)-Varma Layout - 2nd Cross Road
Date of test	:	13-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.80
4	Average percentage	%	5.7	

CIVIL Pro Sig..... Date..... BANGALORE

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Lab ID : CP-RW-2022-06-23-45 Date: 16-06-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	58	75	15.9	84.1	70-88
4.75	98	173	36.7	63.3	53-71
2.36	95	268	56.8	43.2	42-58
1.18	41	309	65.5	34.5	34-48
0.6	38	347	73.5	26.5	26-38
0.3	28	375	79.4	20.6	18-28
0.15	23	398	84.3	15.7	12-20
0.075	28	426	90.3	9.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	21	21	4.5	95.5	90-100
9.5	59	80	17.0	83.0	70-88
4.75	95	175	37.2	62.8	53-71
2.36	92	267	56.7	43.3	42-58
1.18	44	311	66.0	34.0	34-48
0.6	35	346	73.5	26.5	26-38
0.3	31	377	80.0	20.0	18-28
0.15	24	401	85.1	14.9	12-20
0.075	29	430	91.3	8.7	4-10

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
P.KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 18-06-22

Lab ID : CP-RW-2022-06-23-45

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 15-06-22

Type of Mix : BC (Bituminous Macadam)-Varma Layout - 3rd Cross Road

Date of test : 15-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.60
4	Average percentage	%	5.7	

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Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Lab ID : CP-RW-2022-06-23-45 Date: 18-06-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	93	97	20.6	79.4	70-88
4.75	102	199	42.3	57.7	53-71
2.36	49	248	52.7	47.3	42-58
1.18	43	291	61.8	38.2	34-48
0.6	21	312	66.2	33.8	26-38
0.3	65	377	80.0	20.0	18-28
0.15	21	398	84.5	15.5	12-20
0.075	39	437	92.8	7.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	3	3	0.6	99.4	90-100
9.5	99	102	21.6	78.4	70-88
4.75	100	202	42.8	57.2	53-71
2.36	51	253	53.6	46.4	42-58
1.18	45	298	63.1	36.9	34-48
0.6	19	317	67.2	32.8	26-38
0.3	60	377	79.9	20.1	18-28
0.15	23	400	84.7	15.3	12-20
0.075	41	441	93.4	6.6	4-10

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R.KARTHIK RECHAN
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End of Report

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 18-06-22

Lab ID	:	CP-RW-2022-06-23-45
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	15-06-22
Type of Mix	:	BC (Bituminous Macadam)-Varma Layout - 3rd Cross Road
Date of test	:	15-06-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.80
4	Average percentage	%	5.7	

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Date: 18-06-22

Lab ID : CP-RW-2022-06-23-45

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	96	104	22.0	78.0	70-88
4.75	105	209	44.3	55.7	53-71
2.36	59	268	56.8	43.2	42-58
1.18	22	290	61.4	38.6	34-48
0.6	25	315	66.7	33.3	26-38
0.3	51	366	77.5	22.5	18-28
0.15	39	405	85.8	14.2	12-20
0.075	28	433	91.7	8.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	95	100	21.2	78.8	70-88
4.75	103	203	43.1	56.9	53-71
2.36	55	258	54.8	45.2	42-58
1.18	23	281	59.7	40.3	34-48
0.6	28	309	65.6	34.4	26-38
0.3	53	362	76.9	23.1	18-28
0.15	36	398	84.5	15.5	12-20
0.075	37	435	92.4	7.6	4-10

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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Quality Manager

End of Report

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT ON THERMOPLASTIC COMPOUND

Lab ID : CP-2022-06-23-45 **Date: 17-06-2022**

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 12-06-2022

Sample Type : Thermoplastic Compound

Reference to BIS codes : ASTM D36/BS-3262-(Part-I)

Date of test : 12-06-2022

Test Results

Sl.no	Name of Test	Result	Requirements as per Morth 803
1	Colour	White	White/Yellow
2	Softening Point	109°C - 110°C	102.5±9.5°C as Per ASTM D:36
3	Luminance Factor	Sartisfactory	White: Daylight Luminanceat 45-65 Percent min, as per AASHTO M:249. Yellow: Daylight lumunanace at 45-45 percent min, as per AASHTO M:249
4	Cracking Resistance	No Cracks found on application	The Material shall show no Cracks on application
5	Skid Resistance	49	Not Less than 45 as per BS:6044
6	Yellow Index (For White Thermoplastic Plant)	0.08	Not More than 0.12 as per AASHTO M:249
7	Drying Time	13	When Applied at a temperature specified by the manufacture and to the required thickness, the material shall mset to heat traffic in not more than 15 minutes
8	Binder Content % by Weight	21%	White & yellow 18 minutes as per Section 800 in Table 800-9
9	Glass Beads Content % by Weight	30	30-30

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Page 1/1
****End of Report****

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